**Quiz BF[1] - Decomposition**

Part I – Individual Quiz (Before Class)

Part II – Group Quiz (During Class)

1. What is the decomposition of a balanced one-way design (2 pts)?

Estimated Benchmark = grand average

Estimated condition effect = condition average – grand average

Residual = observed value – condition average.

1. What is the estimated effect of a factor equal to (2 pts)?

Average for the factor – sum of estimated effects for all outside factors.

1. What are the degrees of freedom for a factor equal to (2 pts)?

Df = number of levels for the factor – sum of df for all outside factors.

**End of Part I**

1. Were you in class on time (2 pts)?

Yes

1. Decompose, determine the degrees of freedom and create and ANOVA table for the fish data (8 pts).